DMSO

Federate Profiles
- A Summary -

25 April 1996

Federate Profiles

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- **Basic profile was presented at AMG-10**
  - **Discussed earlier with Protofed Tech Leads**
  - **Eight questions, ninth added per AMG discussions**
- **AMG members tasked to provide initial writeup IAW profile**
  - **Out of 24 federates, 16 responses**
  - **Sporadic levels of detail**

Federate Profile Outline

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1. Describe your federate at the outset of the HLA prototyping process.
2. Describe the 'philosophy' driving your federate development/ adaptation.
3. Describe the portions of the federate software which were affected.
4. Describe new capabilities which were added to the software.
5. How extensive were the changes?
6. Estimated tasks and time required for adaptation.
7. If simulation was already adapted to work with other simulations; how did this facilitate the task of adapting for HLA?
8. Based on your experience, what opportunities can you identify for design guidance for other developers to assist in their efforts to adapt simulations or build HLA federate software?
9. (added at AMG-10) What was the programming model used in the federate?

Preliminary Compilation of Results

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- **Number of Responses: 16 out of ~24** (STOW, IADS, SBD, and JPSD members missing)
- **Existing vs New Build: Roughly 50-50**
- **Existing program size (SLOC): smallest 50k, largest >1000k**
- **Programming Language:**
  - **most popular C++ (7)**
  - **next most popular C (5)**
  - **followed by Ada (3)**
  - **Others (Modsim III, LISP, Smalltalk, Fortran)**
- **Platforms: SGI, SGI Indigo, Sun, Sun Solaris, HP, IBM RISC, TAC-3, SUN SPARC, Motorola VME 68000, Windows NT**
- **DIS Compatibility: Seven claim existing DIS compatibility**
- **ALSP Compatibility: One claimed previous ALSP experience**
- **Programming Model:**
  - **Single Threaded 8**
  - **Multi-threaded 3**
  - **POSIX 9**
  - **Platform Specific 1**